

FAX TRANSMISSION

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To:	WAYNE WAMBOUD	Date:	10/11/05
Company:	SEH	Pages:	5 including this cover sheet
Fax No.:	651-490-2150	From:	PAT Frences
Phone No.:		Phone No.:	651-659-1356
	- No. 1	AET Job No.	
Subject:	PRELIMINAY BORING	hoos.	
Comments	: Acy QUESTIONS,	PLEASE CALL	

THANKS

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AET JOB NO: 01-0260		<u>.</u>			LO	OG OF	BOF	RING N	Ю	OB	3-1 ((p. 1	of 2)
PROJECT: Nova Of	f Axis Site; Ne	ar Orr, N	AN		~								
DEPTH SURFACE ELEVAT	TON:			GEOLOGY	N	MC	SA	MPLE	REC IN.			BORAT RQD	ORY TESTS
	ERIAL DESCRIPTIO	Ŋ			1,	IVIC	T	YPE	IN.	KEU %	IN.	% %	
FILL, mostly silty s	sand, a little gravel,	possible		FILL	10		M	oe.	20				
1 cobble, brown and of SILTY SAND, a lit	dark brown tle gravel fine to n				12	M	M	SS	20				
grained, brown, mo	ist, medium dense	(SM)/		COARSE	50/.8	M	М	SS	8				
3 - SAND WITH SILT	AND GRAVEL,:	fine to		ALLUVIUM	307.6	101	A	00					
medium grained, br (SP-SM/SM)	rown, moist, very a	ense		•			国						
5 —					_ 50/.2	2 M	\boxtimes	SS	1				
6 —													
7 -											1		
8 - Granite								NQ3	62	99	62	99	
9 -													
10 Weathering: Gene	erally fresh to 6 5' t	hen											
11 - slightly weathered	to 6.6' then fresh to	14.2' then	-						**************************************				
slightly weathered to 14.4' then slightl	to 14.3' then very v	veathered		GIANTS									
13 - fresh to 18.6' then s	slightly weathered	to 19.4'		RIDGE				NQ3	60	100	58	97	
then fresh to then f	resh to 31.0' then s	lightly						1,00					
weathered to 31.6' slightly weathered		TICII											
16					1								
Discontinuities: S	Shallower low angle	ejoints											
31 5' and 53 5' Ste	ep or high angle io	ints											
observed 5.5', 8.6',	10.7' and 52.6'							NQ3	58	97	57	95	
19 -	-i-ly amonated mampa	black											
20 - Color: Gray and p													
21 Hardness: Very hard at 14.3', 19.4'	and 31.5'. A zone	of soft at											
22 - 14.4'													
23 —								NQ3	60	100	60	100	
24						***************************************							
25 —	4												
26 —	PRELIMIN					1							
27 —	SUBJECT	10 CHAI	NGE										-
28 -						***************************************		NQ3	60	100	60	100	
29 —													
30 —			İ							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
31 —												***************************************	
DEPTH: DRILLING ME	ETHOD		WAI	ER LEVEL M	EASUI	REME	NTS				1	NOTE	REFER T
	DATE	TIME	SAMP DEP		1	YE-I	1	DĚITŤ		WAI LEV	ER		ATTACHEL
0-5.3' 6-5/8" HSA	DVIE	1114115	DEP	TH DEPTH	L D	FLIH	FI	LUDL	EVEL	TEA	<u>r</u> L		TS FOR A
5.3-55.7' NQ					_							•	NATION
BORING COMPLETED: 9/19/05													NOLOGY (
DR: SS LG: SG Rig;	91C											71	IIS LOG
06/04													



AET JOB NO: 01-02601 LOG						LOG OF BORING NO				OB-1 (p. 2 of 2)				
PROJE	CT: Nova Off Axis Site; Near Orr, M	<u>n</u>								***************************************	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
DEPTH IN FEET		GEOLOGY		N	мс	SAMPLE TYPE	REC	FIELD & LABORATORY TESTS REC RQD RQD						
FEET	MATERIAL DESCRIPTION			IN	1010	TYPE	REC IN.	REC %	RQD IN.	RQD %				
33 -						NQЗ	60	100	55	92				
34	Granite					1103		100	55	-2				
35 ~	Gimic													
36 —	Weathering: Generally fresh to 6.5' then		GIANTS											
37	slightly weathered to 6.6' then fresh to 14.2' then slightly weathered to 14.3' then very weathered		RIDGE											
38 39	to 14.4' then slightly weathered to 14.5' then fresh to 18.6' then slightly weathered to 19.4'					NQ3	59	98	59	98				
40	then fresh to then fresh to 31.0' then slightly													
41	weathered to 31.6' then fresh to 53.4' then slightly weathered to 54' then fresh													
42 —	Discontinuities: Shallower low angle joints													
43 —	observed 6.3', 6.6', 14.4', 14.5', 19.3', 31.1', 31.3',					NQ3	61	102	61	102				
44	31.5' and 53.5'. Steep or high angle joints observed 5.5', 8.6', 10.7' and 52.6'					Ì								
45	Color: Gray and pink specked, some black													
46 -	Hardness: Very hard with zones of moderately							ŀ						
47 — 48 —	hard at 14.3', 19.4' and 31.5'. A zone of soft at 14.4'.													
49 -	14.4.					NQ3	58	97	58	97				
50 -														
51						NQ3	9	107	9	107				
52									·					
53 —						NICO?	51	99	51	99				
54 -						NQ3	21	77	31	99				
55, -														
	END OF BORING								:					
									İ					
	PRELIMINARY													
	SUBJECT TO CHANG	1												
					:									
									V					
				-										
			-											
			And the Control of th											
				-						William Control Contro	Print day assument			
)6/n4					1	<u> </u>			1	······				

06/04



AET JO	>	Site: Nea	ır Orr. N	ΜN		LO	G OF	BOR	WG N	O	OE	-2	(p. 1 c	of 2)
PROJECT PROJECT	SURFACE ELEVATION:				GEOLOGY	N	мс	SA) T	MPLE YPE	REC IN.			ABORAT	ORY TESTS
1 -	FILL, mostly silty sand, a li cobbles, trace roots, brown	ittle gravel, p and black	oossible		FILL	15	М	M	SS	17				
2 3 4	SILTY SAND, a little grave fine to medium grained, bro medium dense (SM)	el, possible o own mottled,	cobbles, , moist,			14	М	X R	SS	11				
5 — 6 — 7 —	SILTY SAND WITH GRA grained, brown, moist, dens				COARSE	38	М		SS	16				
8 — 9 —		<u> </u>			ALLUVIUM	69	M		Ss F					
10 — 11 — 12 —	SAND WITH SILT AND (cobbles, fine to medium gra dense (SP-SM)	GRAVEL, possible ained, brown, moist,			44	M	X s:	SS	17					
13 —				y and a second		38	М	X	SS	9				
14 — 15 — 16 —	SILTY SAND, a little grav grained, brown, moist, very	el, fine to m dense (SM	edium)			65/,6	M	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SS	6				
17 — 18 —	Granite					4444			NQ3	60	100	60	100	
19 20 21 22 23	Weathering: Fresh Discontinuities: Shallowe observed 15.9', 16.3', 21.7', 47.2', 51.8', 59.6' and 61.1' joints observed 60.3'.	, 33.0', 36.5',	, 43. 7 ′,		GIANTS RIDGE	And Andrews and an analysis of the Andrews and Andrews	and a state of the		NQ3	60	100	60	100	
24 - 25 - 26 -	Color: Pink, black and gra Hardness: Very hard	ay specked												
27 28 29 30 31	SUBJECT		NGE				- Constitution of the Cons		NQ3	62	103	62	103	
DE	PTH: DRILLING METHOD			WATI	L ER LEVEL ME	 ASUR	L EMEN	TTS		J			NOTE:	REFER TO
	9-15' 4.25" HSA 5-65' NQ	DATE 9/20/05	TIME S	EAMPI DEPT		~-}	VE-IN EPTH 0.5	FL	ORILLI UID L	NG EVEL	WAT LEV		SHEET	TTACHEL
	NG PLETED: 9/20/05												TERMI	NATION C VOLOGY C IS LOG



AET JO	ов No: <u>01-02601</u>		LC	G OF	BORING N	10.	_01	3-2	(p. 2	of 2)
PROJE	CT: Nova Off Axis Site; Near Orr, M	N				_			•	
DELLH		GEOLOGY			C4) (0) T	220	FIEL	D & LA	BORA	ORY TES
IN FEET	MATERIAL DESCRIPTION	OBOLOO1	N	MC	SAMPLE TYPE	REC IN.	REC	ROD	RQD %	
33 —					NQ3	60	100	60	100	
34 —		·								
35 ~										
36	Granite									
37 —	XX/agthoring, Frank	3								
38 ~	Weathering: Fresh				NQ3	59	98	59	98	
39 —	Discontinuities: Shallower low angle joints	GIANTS								
40	Discontinuities: Shallower low angle joints observed 15.9', 16.3', 21.7', 33.0', 36.5', 43.7', 47.2', 51.8', 59.6' and 61.1'. Steep or high angle	RIDGE								
41	47.2', 51.8', 59.6' and 61.1'. Steep or high angle joints observed 60.3'.									
42		An and the second and			NO	C+	100		100	
43 —	Color: Pink, black and gray specked				NQ3	61	102	61	102	
44	Hardness: Very hard				and the state of t		AND THE RESERVE AND THE PERSON NAMED IN COLUMN TO THE PERSON NAMED			
45 —		name property and								
46 -										
47 -					NQ3	59	98	59	98	
48 -					11025	37	20	77	70	
49 -		-								
50										
51 – 52 –										
53 —	PRELIMINARY				NQ3	61	102	61	102	
54 -	SUBJECT TO CHANGE									
55 -										
56 -										
57 -										
58 —					NQ3	56	93	56	93	
59 —										
60 -		T. Control of the Con								
61 -					3100	٠. ا	۸,	. :		
62 -					NQ3	31	99	31	99	
63 -										
64 ~	***************************************				NQ3	31	108	31	108	
65	END OF BORING									
Ì					Barrio de Constitución de Cons		***************************************			
				ļ	- Addension and a second					
***************************************		Administration in control of the con		***************************************	**************************************				بدردوا	
	THE PARTY OF THE P									
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